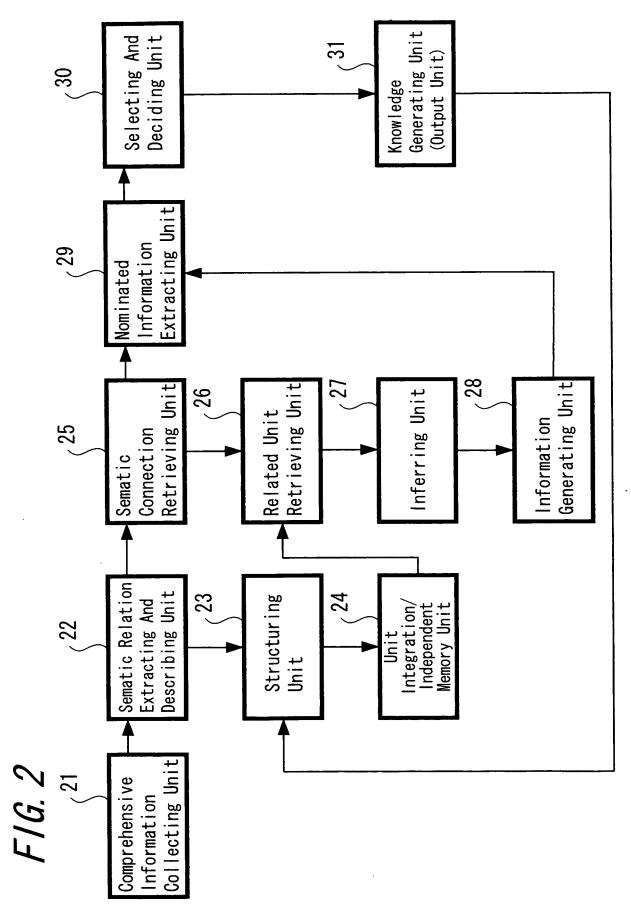
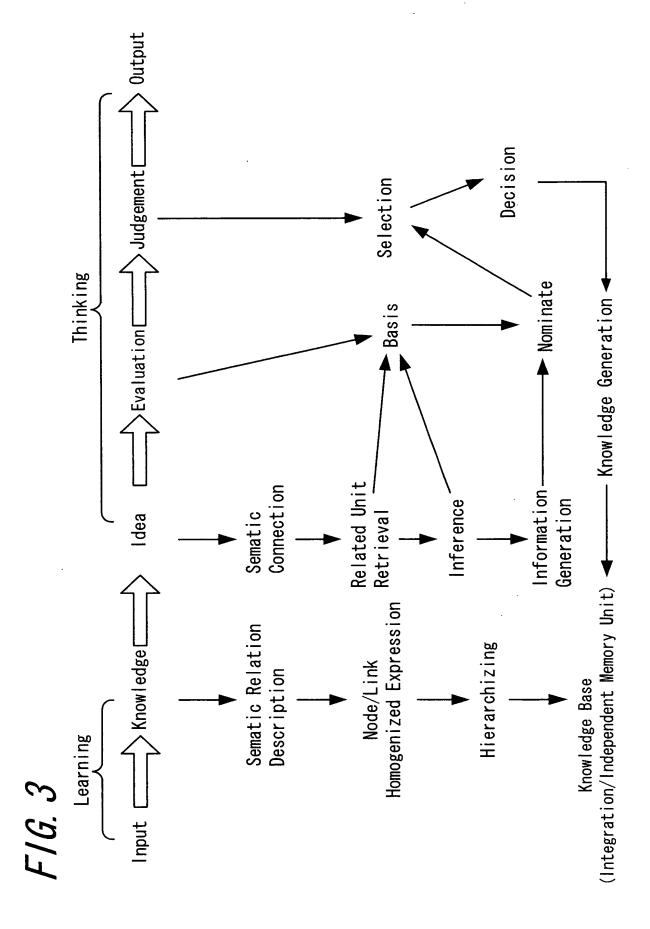
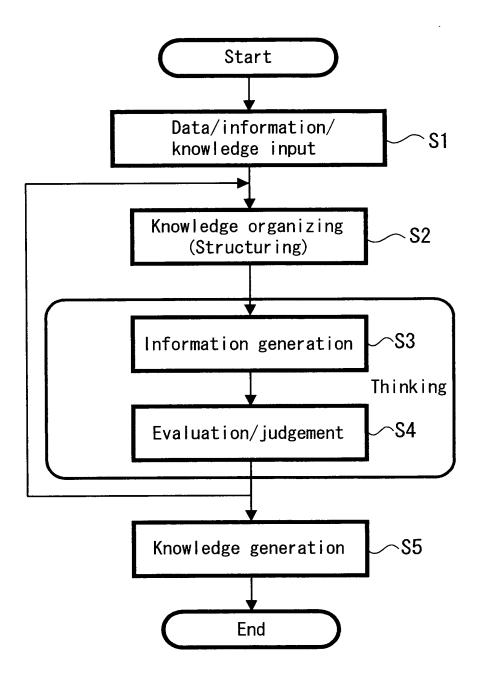


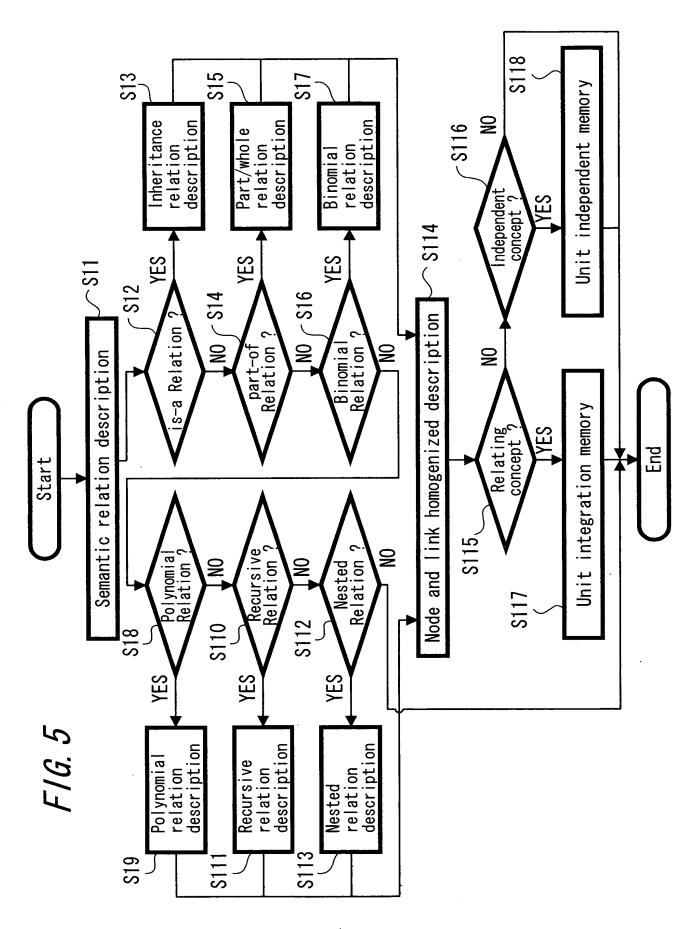
 \cdots



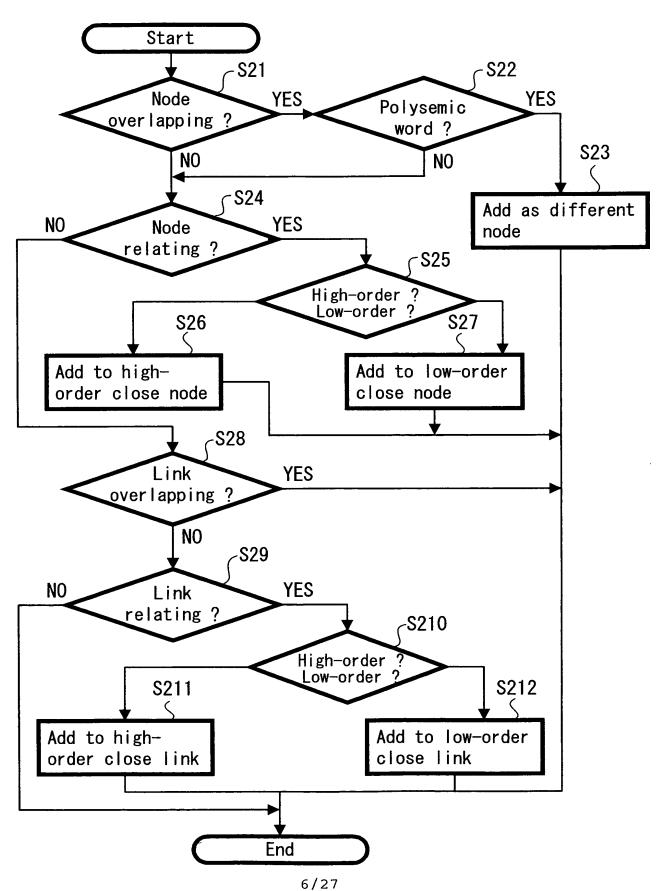


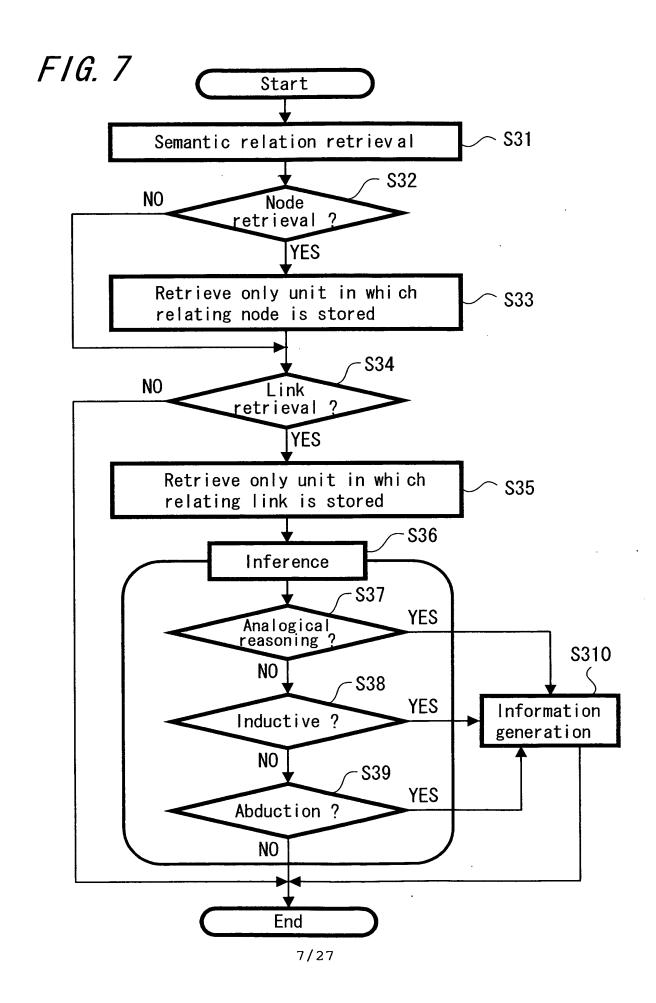
F/G. 4



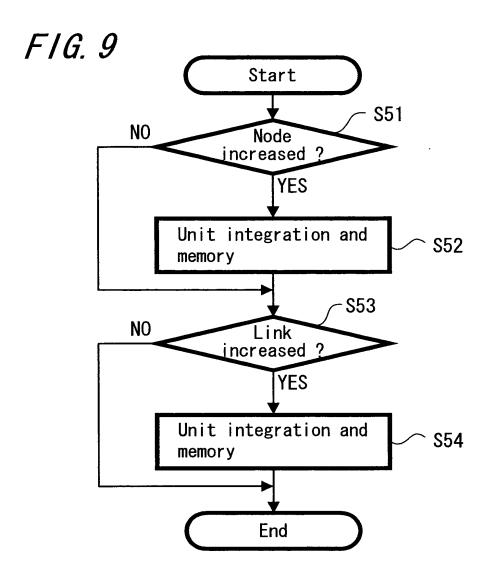


F/G. 6

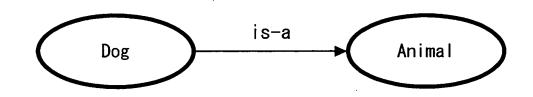


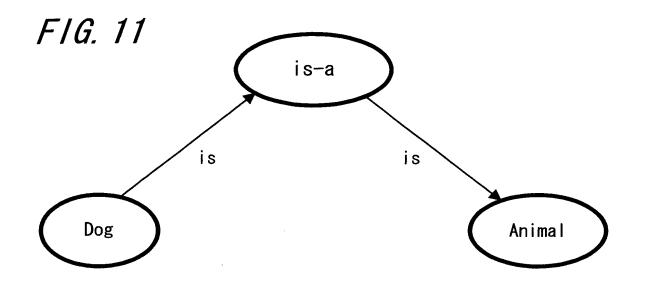


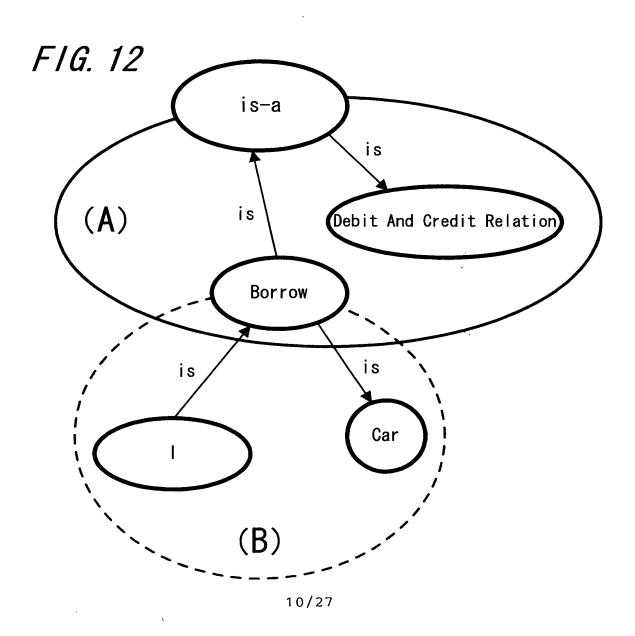
F/G. 8 Start Label Information generated result and **S41** evaluate result item by **S44** item Other result **S42** Inquiry request NO satisfied ? Self-organizing \$43 knowledge base YES Nominate **S45** Sequencing based on nominate request standard ⁻S46 Satisfaction degree of target necessary condition maximum ? NO YES ·S47 Decision End



F/G. 10







45 Knowledge Base for Semantic Memory Structure INTEGRAL Equivalence Relation Hierarchical Relation Other Specified Semantic Relation SS-KWEIC SS-SANS **C-TRAN** SANS 42 44 43 F1G. 13 Dictionary, etc. Journal of Papers Comprehensiv Collection of Terms nformation Thesaurus

FIG. 14

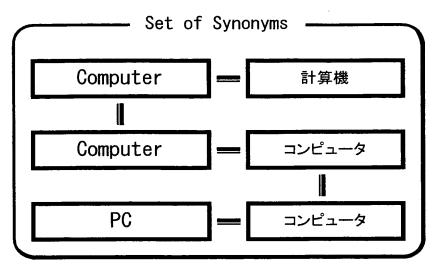
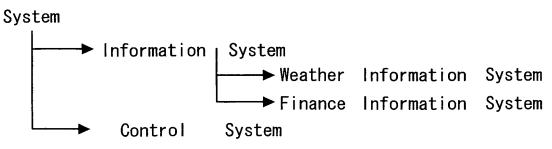


FIG. 15

Words Before Being Decomposed	Words After Being Decomposed
System Information System	System Information System
Control System	Control System
Weather Information System	Weather Information System
Finance Information System	Finance Information System



F/G. 16

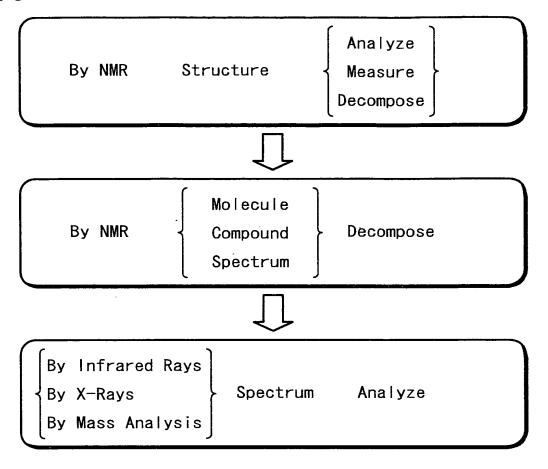
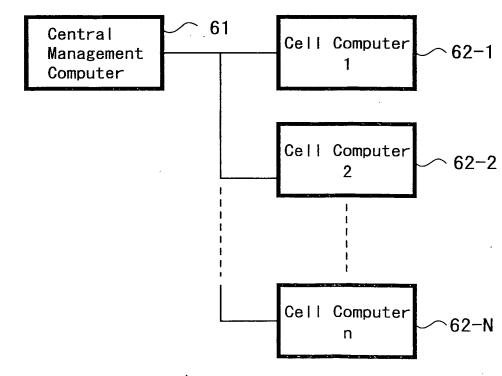
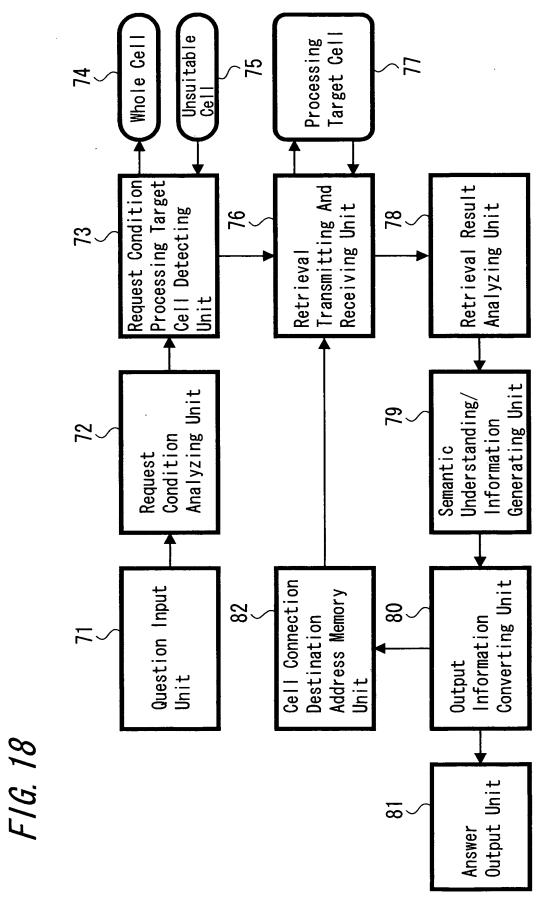
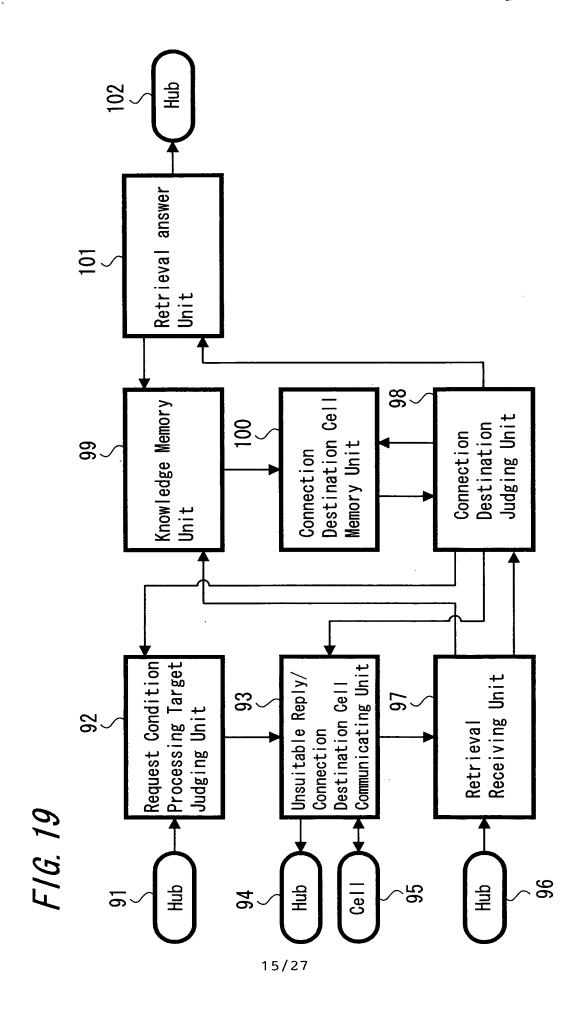
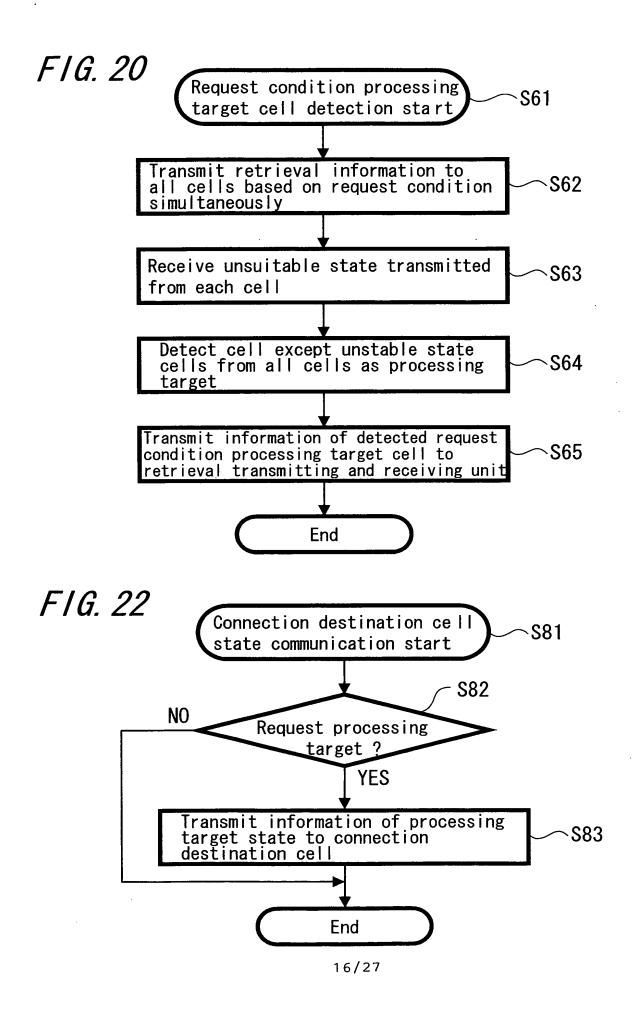


FIG. 17









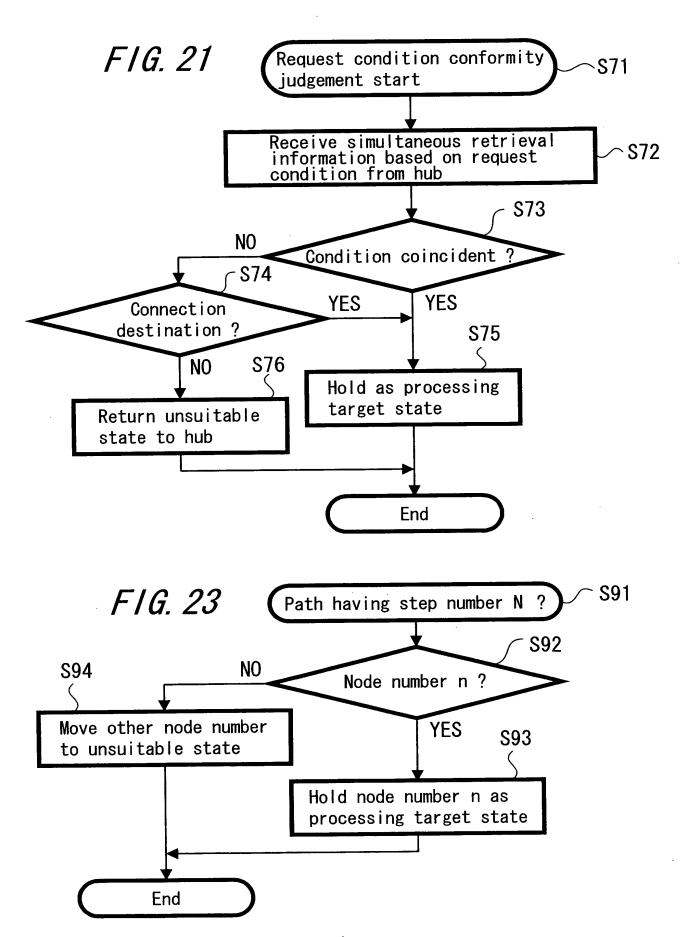


FIG. 24

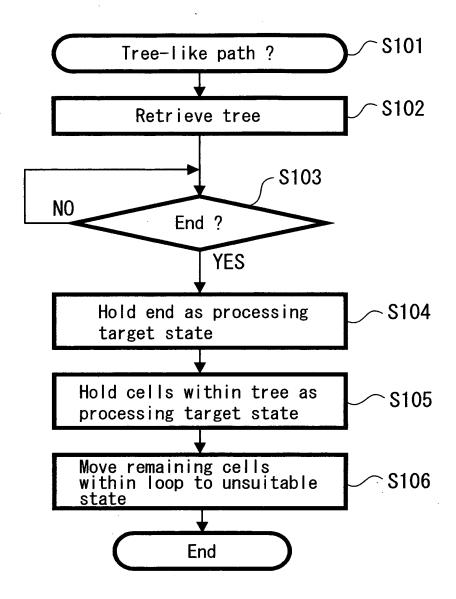
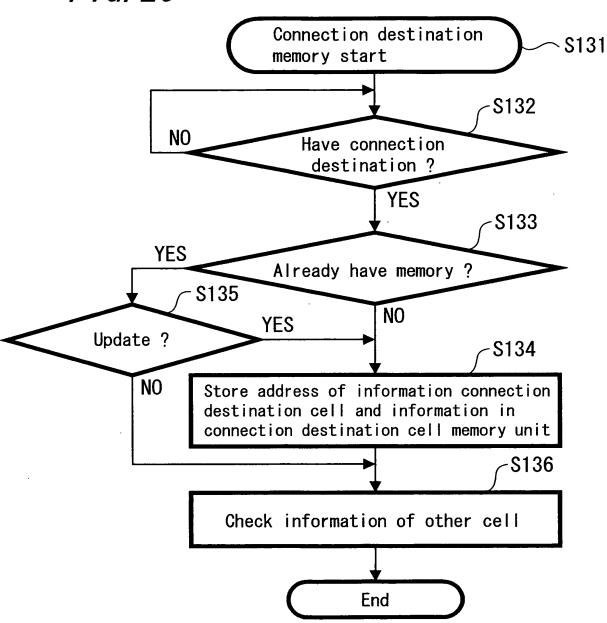


FIG. 25 **S121** Loop-like path? **S122** Retrieve Loop S123 NO End? YES **S124** Move end to unsuitable state Move cells within tree to S125 unsuitable state S126 NO **S128** Node n ? YES Move other node number to unsuitable state **S127** Hold remaining cells within loop as processing target state End

FIG. 26



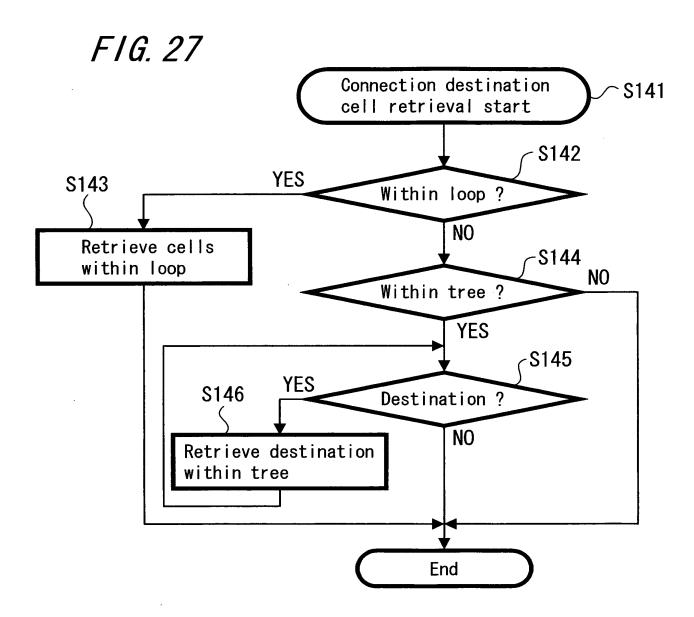


FIG. 28

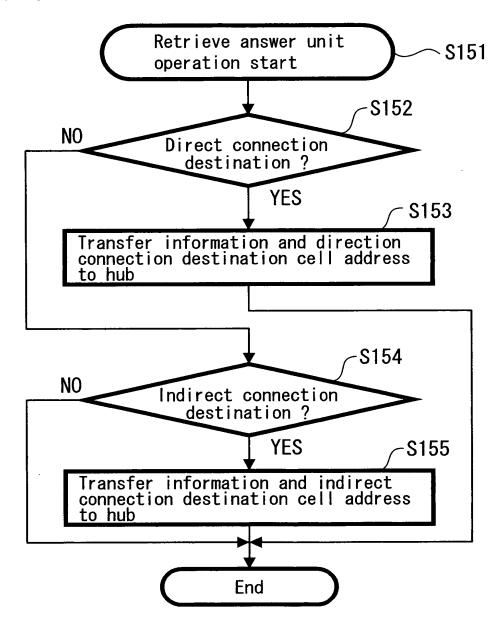
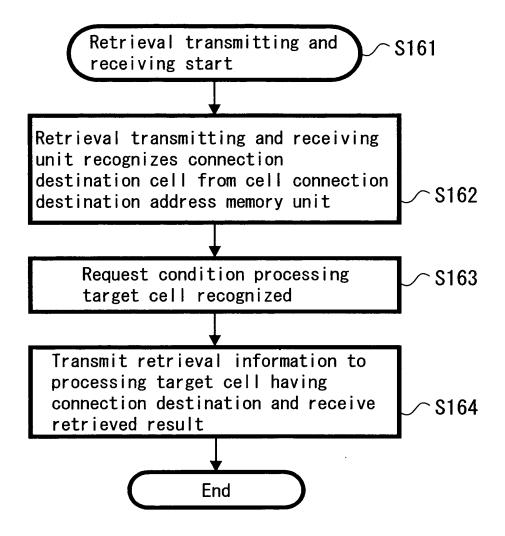


FIG. 29



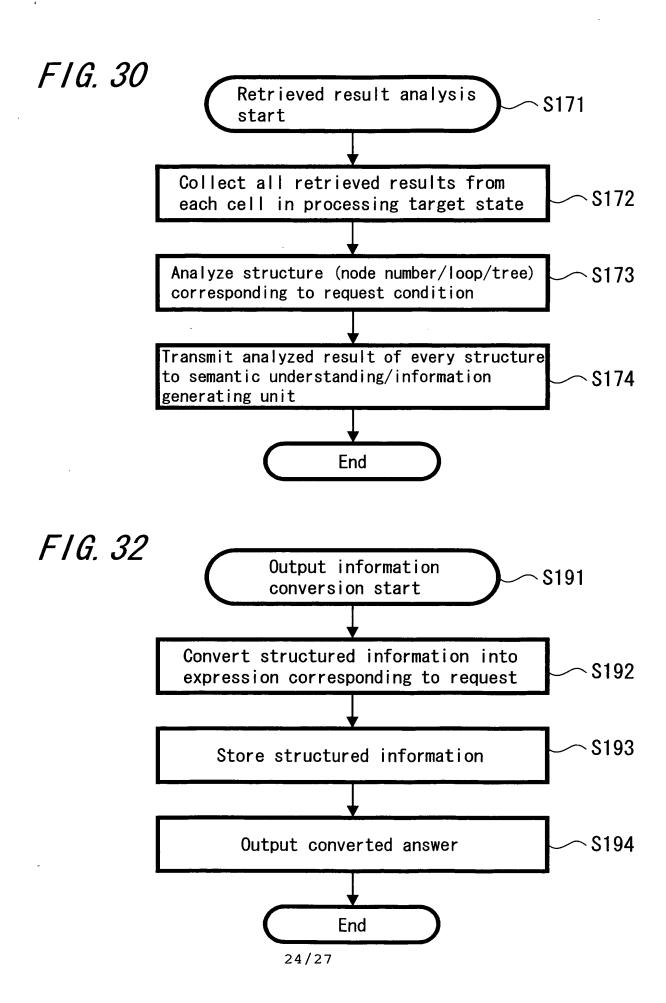
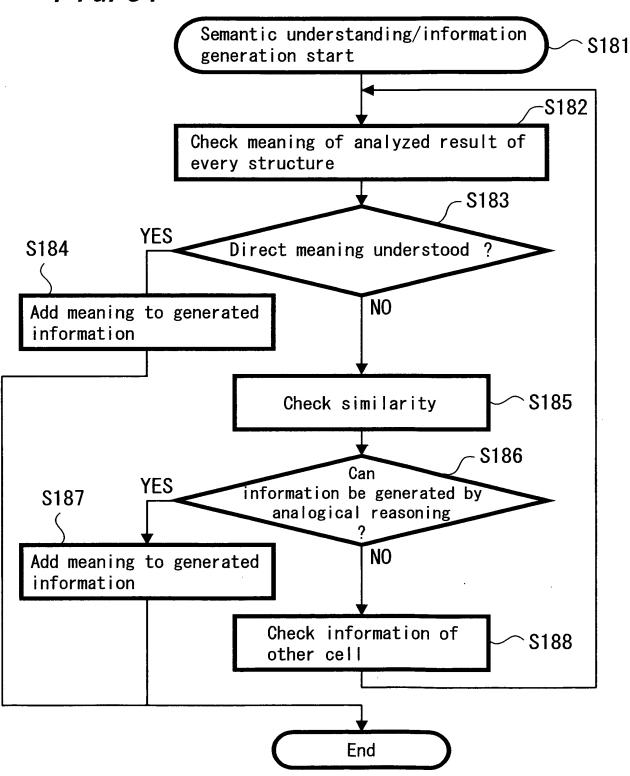


FIG. 31



DESCRIPTION OF REFERENCE NUMERALS

- 1, 21 ... comprehansive information collecting unit
- 2, 22 ... semantic relation extracting unit
- 3, 23 ... self-organizing (structuring) unit
- 4, 24 ... knowledge base (unit integration/independent memory unit)
 - 5 ... input unit (inquiry unit)
 - 6 ... verifying unit
 - 7, 28 ... information generating unit
 - 8 ... evaluating unit
 - 9 ... judging unit
 - 10 ... deciding unit
 - 11, 31 ... output unit (knowledge generating unit)
 - 61 ... central management computer
 - 62 ... cell computer
 - 71 ... question input unit
 - 72 ... request condition analyzing unit
- 73 ... request condition processing target cell detecting
 - 74 ... whole cell
 - 75 ... unsuitable cell
 - 76 ... retrieval transmitting and receiving unit
 - 77 ... suitable cell
 - 78 ... retrieval result analyzing unit
 - 79 ... semantic understanding/information generating unit

- 80 ... output information converting unit
- 81 ... answer output unit
- 91 ... hub
- 92 ... request condition processing target judging unit
- 93 ... unsuitable reply/connection destination cell communicating unit
 - 94 ... hub
 - 95 ... cell
 - 96 ... hub
 - 97 ... retrieval receiving unit
 - 98 ... connection destination judging unit
 - 99 ... knowledge memory unit
 - 100 ... connection destination cell memory unit
 - 101 ... retrieval answer unit
 - 102 ... hub